	AGRICULTURAL A	PPLIC	CATIONS OF WIND ENERGY						
1	Course Title:	AGRICL	ILTURAL APPLICATIONS OF WIND ENERGY						
2	Course Code:	BSM6019							
3	Type of Course:	Optional							
4	Level of Course:	Third Cycle							
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	6.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	2.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Prof. Dr. ALİ VARDAR							
15	Course Lecturers:	YOK							
16	Contact information of the Course Coordinator:	e-posta: dravardar@uludag.edu.tr Telefon: 0 224 2941605 Adres: Bursa Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059, Nilüfer/BURSA							
17	Website:								
18	Objective of the Course:	The purpose of this course, the accumulation of information about wind energy from renewable energy sources to create one of the wind energy solutions to energy requirements of different applications and businesses, the information is to provide an effective opportunity to benefit.							
19	Contribution of the Course to Professional Development:	The student contributes to the knowledge of wind energy and agricultural applications.							
20	Learning Outcomes:								
		1	To understand the importance of the concept of energy						
		2	To analyze the characteristics of wind energy						
		3	To analyze the wind power can be obtained						
		4	The choice for the problem of wind turbines						
		5	To understand the mechanics and aerodynamics of wind issues						
		6	To develop energy projects to meet the needs of businesses						
		7							
		8							
		9							
		10							
21	Course Content:								
	Course Content:								
Week			Practice						
1	Introduction		Lectures on the analysis of expectations						
2	The formation of the wind		Homework topics and information given						
3	Characteristics of the wind		Calculations with the characteristics of the wind						

4	Ability to make the wind work		Calculations related to the ability to make the wind work						
5	Wind data analysis methods		Wind data analysis						
6	Wind energy conversion		Analysis of wind energy conversions						
7	Structural parameters of wind energy	,	Analysis related to the structural parameters of wind power						
8	Wind energy plants		Investigation of wind power plants						
9	General Review		Investigation of wind power plants						
10	Wind turbine types and characteristic	s	Investigation of wind power plants						
11	Mechanics and aerodynamics of wind	d	Calculations related to the mechanics and aerodynamics of wind						
12	Wind turbine site selection		Wind turbine site selection analysis						
13	Methods for the solution to energy ne businesses focused on wind energy	eds of	Project examples						
14	General Review		Project examples						
22	Textbooks, References and/or Other Materials:		 Crome H., 2000. Handbuch Windenergie Technik, ökobuch, Staufen bei Freiburg, Germany. Ackermann T., 2009. Güç sistemlerinde Rüzgar, Wiley, Ankara. Hanus B. Ve Stempel U.E., 2011. Das grosse Solarund Windenergie Werkbuch, Franzis Verlag GmbH, Poing, Germany. 						
23	Assesment								
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT						
Midtern	n Exam	1	40.00						
Quiz			0.00						
Home v	vork-project	0	0.00						
Final Ex	xam	1	60.00						
Total		2	100.00						
Contribution of Term (Year) Learning Activities to Success Grade			40.00						
Contrib	ution of Final Exam to Success Grade)	60.00						
Total			100.00						
Measurement and Evaluation Techniques Used in the Course			The effect of the final exam on the course-passing grade is 100%.						
24	ECTS / WORK LOAD TABLE								

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	2.00	28.00
Homeworks	1	50.00	50.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	16.00	16.00
Others	0	0.00	0.00
Final Exams	1	24.00	24.00
Total Work Load			190.00
Total work load/ 30 hr			5.80
ECTS Credit of the Course			6.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	4	3	3	2	3	3	2	3	4	4	2	4	0	0	0	0
ÖK2	4	5	3	4	3	4	2	4	4	4	2	2	0	0	0	0
ÖK3	4	5	3	4	3	4	3	5	4	4	2	3	0	0	0	0
ÖK4	4	5	3	3	3	5	3	5	4	4	2	3	0	0	0	0
ÖK5	5	4	5	3	5	3	2	5	3	5	5	5	0	0	0	0
ÖK6	5	4	5	3	5	3	2	5	3	5	5	5	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2	2 low 3 l			3 Medium			4 High			5 Very High			